CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

		Date 05/14/2008
Contract ID 080328-501		Job No. <u>J5P0592A</u>
County Camden	Route 5	Original Bid Cost \$11,378,348.02
Contractor Dave Kolb Grad	ling	By Jeff Kolb
Designed By Jeff Kolb		Phone (636) 441-0200
VE 08-35		
1. Description of existing req	uirements and proposed c	change(s). Advantages/Disadvantages
 a) The existing conditions rock base to be increased to 	- -	rock base. Our proposed changes would call for the
Advantage: By going with	12", it will give a longer lif	e and less maintenance.
b) See attachment A	•	
2. Estimate of reduction in c	onstruction costs.	\$433,536.00
3. Prediction of any effects the maintenance and operation	2 2	have on other department costs, such as
•	шъ.	
See (a) above		
4. Anticipated date for subm Specifications.	ittal of detailed change(s)	of items required by Section 104.6 of the
	05/14/20	08
•	(date)	
5. Deadline for issuing a char completion time or deliver		um cost reduction, noting the effect of contract
05/30/2008	Same completion date.	Please notify by 05/30 to build new grading file.
(date)		(effect)
6. Dates of any previous or c	oncurrent submission of th	ie same proposal.
	04/14/20	08
	(date and/or	dates)

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ATTACHMENT A

B) Detailed estimate of the cost of performing the work under the existing contract and under the proposed change:

We would propose 12" rock base in lieu of 8" rock base.

We believe it would save roughly \$1,000,000.00 in future paving cost. (base rock, paving). The added cost is \$566,464.00 as described below for a net savings of \$433,536.00.

\$ 22,000.00
\$ 7,500.00
\$200,912.60
\$ 84,654.00
<u>\$251,398.42</u>
\$566,464.00

TOTAL VALUE ENGINEERING

\$433,536.00

We would propose lowering profile through stations 1213 = 1230 to generate additional Class C. This appears to be the deepest cut and would be the best rock.

We didn't go into as much detail as the first value engineering because we just wanted to see if this had merit. Either the state or Dave Kolb Grading can have API change profile to generate the Additional 28,218 c.y. needed for 12" base.

D) Any itemized list of the contract items of work affected by the proposed changes, including any quantity variation attributable thereto.

Line No. 0130 203200 Class C Increase 28,218 c.y.
Line No. 0220 3049905 Misc. Placing 8" rock base Increase 4"

E) A description of any previous use or submission of the same proposal by the contractor:

We proposed 18" prior; we believe 12" gives the State less risk.

Distribution:

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: I RECOMMEND APPROVAL OF THIS V.E. CONCEPT.	SHOULD THIS
CONCEPT BE APPROVED AT ALL LEVELS THE CONTRACT	
SUBMIT MORE DETAILED INFORMATION SUCH AS! AN	
CHANGET SHOULD MEET MODOT DESIGN CRITERIA,	
WASTE NEEDS TO BE ALCOUNTED TOR, AND BORROW	AREMS IDENTIFIED.
Michael K. O'Malley	5/27/08
Submitted By Resident Engineer	Date

Comments: Agree W/ the	. Whome and that this concept has ment. Kod	Lhase placed 8 12" should
occordence wi std spe ?	303 as appropriate for 12" thickness. Concept as pro	posed will also lequire & utily
edjustment (telephone (Hoter)	restimated 2\$25-30 k. In lieu of lowering profile as	proposed, an alternative to
udd'i Class C would be to ca	t the slopes back further to the light of approx. Sta	is 1220 - 1227 providing add't
excavated tock. Excess c	class A material from this area could be placed.	yia add't compacting embany
in the adjacent section of	cooper sta's 1228 - 1232 for the future the 5	4 tane. This will not enter!
modifying the profile and t	man provides a more viable option, which should	be considered.
Approval		
Approval Recommended	District Engineer	5 29 08
	- Chicary ())
Rejection Recommended	District Engineer	Date
21000111101101	•	
Comments: The concept	X is approved, However prior to finalizing ?	the VE Proposed, the
atternative proposal	stated above " the Historit Engineer's comm	ents should be further
investigated by taking	cores to the right of the location to deter	mine if suitable rock
is available, If rock ?	s available, the alternative proposal is the me	St desirable since it
will not require modifying	the plan profile nor relocation of existing of state Operations Engineer	utilitles
Approval 'V	or for Dave ahlvers	5/3/08
Rejection	State Operations Engineer	Date

MEMORANDUM



Missouri Department of Transportation Project Operations-Construction District 5

TO:

Pat McDaniel

Technical Support Engineer

CC:

Mike O'Malley

FROM:

Duane Kliethermes

District Final Plans Processor

DATE:

May 30, 2008

SUBJECT:

District 5

V.E. Proposal

Job No. J5P0592A

Contract I.D. 080328-501 Route 54, Camden County

Attached is a value engineering proposal submitted by Dave Kolb Grading on the above mentioned project.

The contractor proposes to increase the rock base from 8" to 12" providing a longer life and less maintenace.

We concur with our Resident Engineer and recommend this proposal be approved.

The potential savings involved are covered in the attachments

cc: File

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK (Check one that applies)
Bridge/Structure/Footings Drainage Structures (RCP, RCB, CMP's ect) TCP/MOT Paving (PCCP, ect.) Grading/MSE Walls Signal/Lighting/ITS Misc.
SUMMARY OF PROPOSAL

Treveale the roo	k base from 8"+ vating additional row	o 12" by excavat	by Leeger (i.e.,	change
lan protile) or excan	isting additional roc	K adjacent to the	t readway bed,	
•			,	

(If needed, condense summary to a couple of lines)

SCANNING OF DOCUMENT If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here. All